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GRAHAM-FIELD

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222-INS-LAB-RevB11
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LabTron®

A Graham-Field Brand

Wallmax™ Professional Aneroid Sphygmomanometer

Model 222

User Manual

⚠CAUTION: This product contains natural rubber latex, which may cause allergic reactions.

Read this manual before operating the Wallmax Professional Aneroid Sphygmomanometer.

Save this manual for future reference.

The latest version of this manual can be found at www.grahamfield.com.

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1) Print double-sided at 1/1 scale on 8.5" x 11" paper of sufficient weight that opposite side does not show through.
2) Saddle stitch. 3) Fold. 4) Final size: 5.5" x 8.5".

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Tools needed for installation: Drill with 3/16" drill bit

Info: A stethoscope is necessary to perform the auditory component of blood pressure readings.

SAFETY GUIDELINES - PLEASE READ BEFORE USE

⚠ **Important! Read and understand these instructions before installing or using the Labtron Wallmax Aneroid Sphygmomanometer. If you do not understand any part of these instructions, contact your medical professional or authorized Graham-Field distributor for direction in the use of this product.**

⚠ **WARNING: If components are damaged or missing, contact your Graham-Field dealer immediately. DO NOT use substitute parts.**

⚠ **WARNING: GF Health Products, Inc. assumes no responsibility for any damage or injury caused by improper installation or use of this product.**

INTENDED USE

The Labtron Aneroid Sphygmomanometer, shown on the next page, is intended to measure arterial blood pressure.

MAINTENANCE

▲ **NOTICE: To prevent product damage, please follow these recommended care and maintenance instructions:**

Do not drop or pull excessively on the sphygmomanometer components.	
Never inflate beyond 300mmHg.	
Do not expose the cuff to direct sunlight.	
Do not put the sphygmomanometer in contact with sharp objects which could pierce the material and cause damage.	
Do not dismantle or disassemble.	
Cleaning	Wipe off manometer and bulb with a clean, damp cloth. Wash cuff with soap and cold water, rinse, and air dry. Do not iron cuff.
Sterilization	Do not use steam, heat, or liquid disinfectants to sterilize cuff, inflation system, or manometer. Gas sterilization may be used on cuff only, if necessary.
Storage	Always deflate the cuff completely before storage.

WARRANTY

GF Health Products, Inc. ("Graham-Field") warrants the Labtron Wallmax Professional Aneroid Sphygmomanometer Model 222 for a period of one year for defects in workmanship and materials. If a product is deemed to be under warranty, GF Health Products, Inc. shall provide, at its option, (1) replacement of any defective part or product or (2) a credit of the original selling price made to GF Health Products, Inc.'s initial customer. The warranty does not include any labor charges incurred in replacement part(s) installation or any associated freight or shipping charges to GF Health Products, Inc.

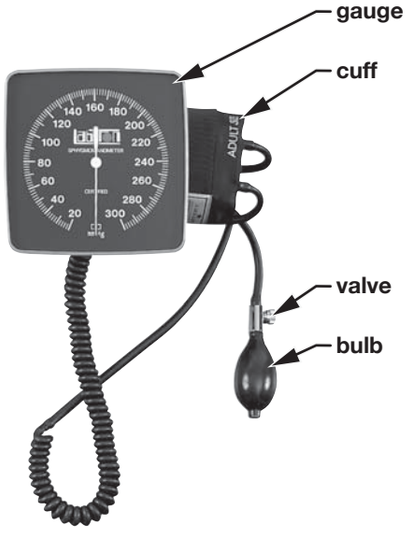
The warranties contained herein contain all the representations and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understandings with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

Inflating the cuff: Close the bulb's air valve by turning the air release valve clockwise. Squeeze the inflation bulb at a steady rate until the gauge's needle points at approximately 30mmHg above the individual's normal systolic pressure value. If the individual's normal blood pressure is not known, it is recommended to inflate to 200mmHg.

Systolic blood pressure reading: Open the air release valve slowly by turning it counter-clockwise while holding the diaphragm of the stethoscope over the brachial artery. Proper deflation rate is vital for an accurate reading. The recommended deflation rate is 2-3mmHg per second, or a drop of one to two marks on the pressure gauge with each heartbeat. **Do not keep the cuff inflated any longer than necessary.** As the cuff begins to deflate, listen carefully with the stethoscope. Note the reading on the gauge as soon as a faint, rhythmic tapping or thumping sound is heard. The first sound is the systolic pressure reading. Always check with your health care provider to ensure readings are performed correctly.

Diastolic blood pressure reading: Allow the pressure to continue dropping at the same deflation rate. Note the reading on the gauge when the last audible thumping, swishing, or blowing sound is heard; this is the diastolic blood pressure reading. After a few seconds have passed and no audible thumping, swishing, or blowing sounds are heard, deflate the cuff using the air release valve completely. Remove the cuff and stethoscope from the arm.

Record the systolic and diastolic readings. Repeat the measurement two or more times to ensure accuracy. Only a patient's physician is qualified to analyze blood pressure.



222 Wallmax Professional
Aneroid Sphygmomanometer

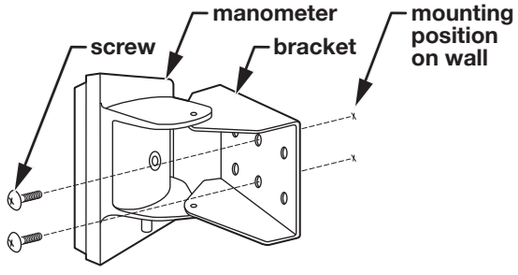
INSTALLATION

The Wallmax Aneroid Sphygmomanometer wall mount is packaged complete with gauge, swivel bracket, and mounting screws.

Info: Mount the gauge at the intended users' eye level to facilitate easy measurement reading.

⚠ **WARNING: The wall bracket mounts on two screws which are installed in the wall. You must mount these screws in a wall stud; otherwise, the sphygmomanometer could fall, resulting in damage to the sphygmomanometer and/or personal injury.**

1. Mount the bracket using the two center holes. Swivel the sphygmomanometer on its bracket to expose the mounting holes, as shown below.



Installation,
222 Wallmax Professional
Aneroid Sphygmomanometer

2. Locate the wall stud where you will mount the bracket.

⚠DANGER—risk of electrocution! **Ensure that there is no electrical wiring at the location where you will mount the bracket.**

3. Hold the bracket up to the wall at the desired mounting height. Place the two center mounting holes directly over the wall stud. Ensure that the manometer's face is correctly oriented and that the bracket is level. Mark on the wall in the center of both holes. Remove the bracket.
4. Drill a $3/16$" hole approximately $7/8$" deep at each of the two marked locations.
5. Hold the bracket up to the wall at the mounting location, ensuring that the manometer's face is correctly oriented and that the bracket is level.
6. Install the two mounting screws through the bracket center mounting holes into the wall stud. Do not overtighten.

BLOOD PRESSURE

Blood Pressure is a measure of the blood's pressure in the circulatory system, which changes constantly during the course of the cardiac cycle. Blood pressure readings report two values. The higher reading (**systolic pressure**) shows the highest pressure in the arteries occurring when the heart contracts. The lower reading (**diastolic pressure**) shows the lowest pressure in the arteries, which occurs right before the heart contracts. Blood pressure readings are written with the highest value first, then the lowest value. Readings of 120/80 are considered to be normal, with high blood pressure being defined as a systolic pressure which is 140mmHg or more at rest and a diastolic pressure which is 90mmHg or more at rest. Only a patient's physician is qualified to determine whether the readings obtained are normal for that person.

Measuring blood pressure: Have the patient, while relaxed and in a sitting position, extend the arm from which the blood pressure will be taken to the front or laterally with the palm of the hand up.

Attach the cuff and diaphragm: Hold the end of the cuff containing the inflation bag firmly against the inside of the bare upper arm with the artery symbol positioned over the brachial artery. **Never place the cuff over clothing.** Pull the opposite end of the cuff snugly around the arm and secure the hook and loop fastener strips. The range lines, indicated by the arrows, show the correct cuff size when the cuff is placed on the arm. If the index line on the end of the cuff falls between the two range lines, the cuff is the proper size. If the index line falls outside the range lines, a larger or smaller cuff should be used. The cuff should be snug, but not too tight. If one or two fingers can fit between the cuff and the arm, the cuff is properly secured. Place the diaphragm of the stethoscope over the brachial artery inferior to the cuff.